

ZORE, M.

The Institute of Oceanography and Fishing in Split; brief survey of works achieved in the Physiographic Section and publications. p. 31.
(GODISNJAK, Yugoslavia, 1955 (published 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

ZORE, Mira; IRIC, Ante; GRAKALIC, Mladen, kapetan fregate; BULJAN,
Miljenko, dr.

Review of conferences and consultations during 1958. Hidrograf.god
1958 (Published 1959):89-100. (HEAL 9:5)

1. Jugoslovenska ratna mornarica (for Grakalic).
(Adriatic Sea) (Yugoslavia--Hydrography)

ZORE, M.

Gradient currents in the Adriatic Sea. p. 55.
(GODISNJAK, Yugoslavia, 1955 (published 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

ZORE, Mira

Variations of the sea level along our coast and the system of gradient currents in the Adriatic. Hidrograf god 1959:59-65 '60. (EAI 10:6)
(Yugoslavia--Oceanography)

ZOHE, Mira

Appearance of ice on the sea in the Kastel Bay. Hidrograf, god 1958
(Published 1959):261-264. (HEAI 9:5)
(Adriatic Sea) (Yugoslavia--Ice)

KOLESNIKOV, P. A.; PETROCHENKO, Ye.I.; ZORE, S.V.

Interaction of glycolic acid oxidase and polyphenoloxidase.
Fiziol. rast. 6 no.5:598-603 S-O '59. (MIRA 13:2)

I.A.N. Bakh Institute of Biochemistry, U.S.S.R. Academy of Sciences
Moscow.

(Glycolic acid oxidase) (Phenolase) (Plants—Metabolism)

KOLESNIKOV, P.A.; ZORE, S.V.

Anthocyanins and flavones during the oxidation of ascorbic acid in plants. Fiziol. rast. 11 no. 3:522-528 '64.

(MIRA 17:7)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

KOLESNIKOV, P.A.; ZORE, S.V.

Qualitative changes in the phenol composition of the coleoptiles
of wheat during growth inhibition by light. Fiziol.rast. 9 no.4:
454-460 '62. (MIRA 15:9)

1. A.N.Bakh Biochemistry Institute, U.S.S.R. Academy of Sciences,
Moscow.

(PHENOLS) (PLANTS, EFFECT OF LIGHT ON)

17(3)

AUTHORS: Kolesnikov, P. A., Petrochenko, Ye. I., SOV/26-123-4-44/53
Zore, S. V.

TITLE: Fermentative Reduction of Quinone by Glycolic Acid (Fermentativ-
noye vosstanovleniye khinona glikolevoy kislotoy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,
pp 729-732 (USSR)

ABSTRACT: The first mentioned author has found earlier that glycolic acid accelerates the transformation of p-benzoquinone in centrifuged homogenates of barley leaves (Ref 1). It was assumed that glycolic acid reduces p-benzoquinone in the presence of the oxidase of glycolic acid. Besides these two compounds various phenol derivatives are widespread in green plants which can be oxidized to quinone. Possibly, phenols and quinones are components of respiratory systems (Ref 2). The process mentioned in the title is a hardly explained part of these systems. It was therefore interesting to carry out a detailed investigation of the reduction mechanism. For the production of ferment preparations the small leaves of the

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Fermentative Reduction of Quinone by Glycolic Acid

BOY/20-123-4-44/53

shoots of barley of the type Wiener (Viner) as well as leaves of Trapezond-type tobacco were used. It was found that aqueous yellow solutions of p-benzoquinone remaining at room temperature turn red. This process is accelerated by increasing pH-values; p-benzoquinone is consumed and smaller quantities of oxygen are adsorbed. In the solution hydroquinone can be detected in first approximation in a quantity that is proportional to the intensity of the red coloration and the p-benzoquinone used but not to the quantity of oxygen absorbed. Besides the transformation of p-benzoquinone into hydroquinones some oxidative processes seem to take place in the aqueous solution, which are not taking part in the mentioned transformation. It was found that some preparations synthesized from the green leaves accelerate the transformation just mentioned. The addition of glycolic acid increases this acceleration (Table 1). Since the red color is considerably decreased by the addition of glycolic acid an inhibition of the formation of the colored compounds by the glycolate must be assumed, which is formed in the spontaneous transformation of p-benzoquinone. The methods of the transformation of p-benzoquinone have not been explained experimentally. Some assumptions mentioned in publications (Ref 2) are given.

Card 2/3

Fermentative Reduction of Quinone by Glycolic Acid

SOV/20-123-4-44/53

The red coloration probably comes from polymerization products. According to the authors' opinion the last mentioned inhibition tends to show that the quinone reduction takes place directly at the expense of the hydrogen of the glycolate and of the oxidation energy of the glycolate. Thus, the stage of the formation of oxy-hydroquinone is avoided. This process is proved by the formation of glyoxylic acid besides hydroquinone (Table 1). It may be seen therefrom that the glycolate accelerates the quinone transformation only by such preparations that contain the oxidase of glycolic acid. This takes place the more rapidly the more active this oxidase is. There are 1 table and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. I. Bakh, Academy of Sciences, USSR)

PRESENTED: July 31, 1958, by A. I. Oparin, Academician

SUBMITTED: July 29, 1958

Card 3/3

KOLESNIKOV, P.A.; PETROCHENKO, Ye.I.; PSHENOVA, K.V.; ZORE, S.V.

Phenol substances of wheat roots as components of oxidative systems.
Biokhimiia 30 no.2:368-374 Mr-Apr '65. (MIRA 18:7)

1. Institut biokhimiia imeni Bakha AN SSSR, Moskva.

KOLESNIKOV, P.A.; ZORE, S.V.

Products of peroxidase oxidation and the photooxidation of ascorbic acid sensitized by riboflavin in the presence of morin. Dokl. AN SSSR 150 no.3:680-683 My '63. (MIRA 16:6)

1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavleno akademikom A.I. Oparinym.

(Oxidation, Physiological)
(Riboflavin) (Ascorbic acid)

KOLESHNIKOV, P.A.; PETROCHENKO, Ya.I.; ZORR, S.V.

Enzymatic reduction of quinone by glycolic acid. Dokl. AN SSSR
123 no. 4: 729-732 D '58. (MIRA 11:12)

1. Institut biokhimi i imeni A.N. Bakha AN SSSR. Predstavleno
akademikom A.I. Oparinym.
(GLYCOLIC ACID) (REDUCTION, CHEMICAL) (QUINONES)

HOLESNIKOV, P.A. ZORE, S.V.

Anthocyanin formation in wheat shoots induced by visible and
invisible ultraviolet light. Dokl.AN SSSR 112 no.6:1079-1081
P '57. (MLRA 10:5)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR. Predstavleno
akademikom A.I. Oparinym.

(Anthocyanins) (Ultraviolet rays--Physiological effect)
(Wheat)

KOLESNIKOV, P.A.; ZORE, S.V.

Flavones and peroxidase oxidation of ascorbic acid. *Biochimie*
27 no.1:48-54 Ja-F '62. (MIRA 15:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,
Moscow.

(ASCORBIC ACID) (PEROXIDASES) (FLAVONE)

ZORE, V. A.

USSR/Electronics
Oscillators, Electric
Vacuum Tubes, Triode

Sep 48

"Self-Excitation of a Triode Oscillator with Feedback in the Decimeter Band, "S. D. Gvozdozer, V. A. Zore, 12pp

"Zhur Tekh Fiz" Vol XVIII, No 9

Examines self-excitation of a triode oscillator taking account of time of electron flow between cathode and grid of the tube. Gives general formulas for the wave length of the oscillator, conditions of self-excitation, and frequency correction determined by the triode. Illustrates general theory by analysis of self-excitation in the Esau circuit. Submitted 1 Apr 48.

PA 32/49T17

ZORE, V. A.

PA 51/49T31

USSR/Electronics

Vacuum Tubes

MAY 49

2013, 7. 4.

"Theory of the Tri-Electrode Electronic Generator Oscillator With Feedback." Sub
27 Jan 51, Moscow Order of Lenin State U. inst. M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 140, 1 May 55.

QUEINOV, B.P.; KORE, V.A.; IL'INA, A.A.; SHABAD, L.M.

Content of polycyclic aromatic hydrocarbons in air pollution and in smoke. Gig. sanit., Moskva no. 2:10-16 Feb 1953. (GIML 24:2)

1. Of the Scientific-Research Sanitary Institute imeni P. F. Erisman and of the Laboratory of Oncology of the Institute of Normal and Pathological Morphology of the Academy of Medical Sciences USSR.

BELOZERSKAYA, V.I.; ZORE, V.A.

Spectral determination of zinc in atmospheric dust. Gig. i san.
no.3:43 Mr '55. (MIRA 8:5)

1. Iz Nauchno-issledovatel'skogo sanitarnogo instituta im. Erismana.
(ZINC)
(SPECTRUM ANALYSIS)
(DUST--ANALYSIS)

ARTSYBYSHEV, Sergey Aleksandrovich; ZORE, V.A., redaktor; GABRIELAND, M.I.
tekhnicheskii redaktor.

[Physics; textbook for medical students] Fizika; uchebnik dlia
studentov-medikov. 6-e izd. Moskva, Gos. izd-vo med. lit-ry,
1965. 375 p. (MLHA 9:1)
(Physics)

ACC NR: AP7006956

SOURCE CODE: UR/0217/67/012/001/0124/0126

AUTHOR: Zore, V. A.; Kimel'fel'd, O. D.; Suzdaleva, V. V.; Kobyzeva, L. P.; Genkina, Ye. S.

ORG: Medical Institute im. I. M. Sechenov, Minzdrava SSSR, Moscow (Meditsinskiy institut Minzdrava SSSR)

TITLE: Complex dielectric permittivity of human blood serum under normal conditions and during some diseases in the 100---500 mHz range

SOURCE: Biofizika, v. 12, no. 1, 1967, 124-126

TOPIC TAGS: microwave, ~~transmission~~, dielectric ^{properties}, blood, human physiology

ABSTRACT: The dielectric permittivity of normal and pathological blood was measured using a bridge, the arms of which were sections of coaxial cables. The measurement error at 200 mHz was 1.5% and 6 was 3.0%. Table 1 shows some results of a series of tests conducted on blood sera of various donors.

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UDC: none

ACC NR: AP7006956

Table 1. Frequency dependence of the dielectric qualities of various blood sera (23°C)

Blood group	Donor Age	Protein conc, %	100 mhz		200 mhz		300 mhz		400 mhz		500 mhz	
			ϵ_a	ϵ_b	ϵ_a	ϵ_b	ϵ_a	ϵ_b	ϵ_a	ϵ_b	ϵ_a	ϵ_b
I	50	8,45	41,3	222,1	67,7	101,0	—	—	88,7	63,4	—	—
IV	24	8,53	79,2	229,1	68,4	98,1	—	—	67,4	63,3	—	—
III	55	8,25	70,2	205,3	64,7	96,8	50,1	55,4	62,8	47,4	—	—
II	36	8,03	99,3	205,0	60,4	106,1	59,1	51,6	70,2	55,4	70,2	51,3
III	29	7,81	69,3	205,0	60,8	94,4	69,4	62,3	69,8	55,1	59,1	49,3
I	31	8,20	67,4	204,0	67,8	95,0	67,3	73,0	56,4	54,6	66,8	48,2
I	30	8,04	71,3	205,1	72,5	94,0	70,0	64,4	72,2	56,0	—	—
II	44	7,99	72,3	205,0	72,7	90,4	70,7	61,4	70,2	55,1	—	—

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ACC NR: AP7006956

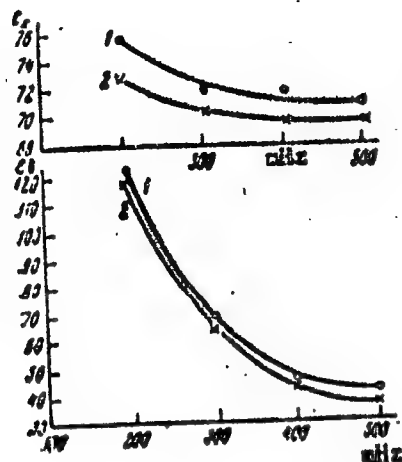


Fig. 1. Frequency dependence of the dielectric qualities (ϵ_x and ϵ_6) of normal blood serum before (1) and after (2) controlled heating to 63°C for 15 min (2.5% protein; 23°C).

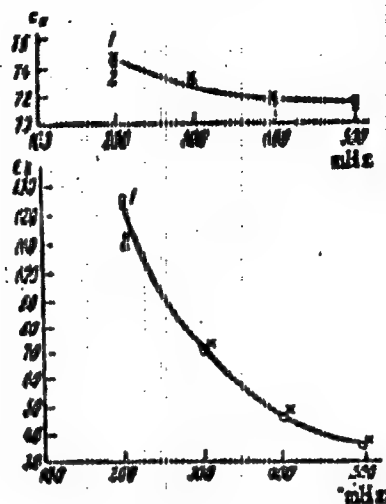


Fig. 2. Frequency dependence of the dielectric qualities of blond from a patient with myeloleukosis before (1) and after (2) heating to 63°C for 15 min (2.5% protein; 23°C).

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ACC NR: AP7006956

Figures 1 and 2 show results of measurements of normal and pathological blood sera. It was concluded that dielectric changes in blood serum are characteristic of a number of illnesses rather than peculiar to one. A more detailed study of the mechanisms of dielectric changes is now being conducted. Orig. art. has: 1 table and 2 figures. [CD]

SUB CODE: 06/ SUBM DATE: 10Jun66/ ORIG REF: 006/ OTH REF: 001/
ATD PRESS: 5117

Card 4/4

ZONE 11
ARTSYBYSHEV, N.A.; BELOGORSKAYA, N.I.; VINOGRADOVA, L.Yu.; GALANIN, D.D.;
GUR'YEVA, V.V.; ZVORYKIN, B.S.; ~~ZORIN~~, V.A.; LIVINTSEV, N.M.;
MENSHUTIN, N.P.; MINCHENKOV, Ye. Ye.; ~~POKROVSKIY~~, A.A.; REZNIKOV, L.I.;
SAKHAROV, D.I.; TIKHONOVA, Z.I.; KHLEBODAROV, S.F.; SHETMAN, M.I.;
YUS'KOVICH, V.F.

Professor S.A. Artsybyshhev; obituary. Fiz. v shkole 18 no.1:95-96
Ja-F '58. (MIRA 11:1)

(Artsybyshhev, Sergei Aleksandrovich, 1887-1957)

ZORE, V.A., dotsent; TIKHONOVA, Z.I., assistant

Simultaneous spectral determination of lead, copper, and tin
in fresh fish and some types of canned fish. Gdg. sanit. 28
no.2:58-60 '63 (MIRA 17:2)

1. Iz I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M.Sechenova.

ZORE, V.A.; KUZIKOVA, N.S.; NIKULINA, L.N.

Some new lecture demonstrations. Usp. fiz. nauk 77 no.1:197-200
My '62. (MIRA 15:6)

(Physics--Study and teaching)

ZORE, V.A.

GVOZDOVER, S.D., and V.A. ZORE

Samovozbuzhdenie trekhelektrodnogo generatora s obratnoi svyaz'iu v detsimetrovom diapazone. (Zhurnal tekhnicheskoi fiziki, 1948, v. 18, no. 9, p. 1194-1201, diagrs.)

Title tr.: Self-excitation of a triode generator with feedback in the decimeter-waveband.

See Science Abstracts. Section E. Electrical Engineering, 1949, v. 52, Abstr, 2235.

CC1.Z46

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZOREC, Branislav Dr. 1951

Ass. to the chief of Vet. Service, Yugo

Memo Dr. Courter State B#588, Belgrade, Rest.

BULJAN, M.; ZOPE-ARMANDA, M.

Problems and hydrographic characteristics of the Mediterranean
Sea. Hidrograf god:89-109 '63.

I 21293-66

ACC. NO. RT5027518

SOURCE CODE: YU/2511/64/0117/01-70293/0308

AUTHOR: Zore-Arnica, M.

ORG: Institute for Oceanography and Fisheries, Split (Institut za oceanografiju i ribarstvo)

TITLE: Results of direct current measurements in the Adriatic

SOURCE: Split. Institut za oceanografiju i ribarstvo. Acta Adriatica, v. 11, no. 1-42, 1964. Simpozij Jugoslavenskih oceanografa, Split, 16-17 X 1962, 293-308

TOPIC TAGS: ocean current, ocean property, oceanography

ABSTRACT: Results are given on direct current measurements carried out at eight 24-hour anchor stations in the middle and south Adriatic, taken by an Ekman current meter from 1958 to 1962. For each station the maximum and average velocity as well as the direction of the current are given. The currents in different seasons are compared. The currents generally have a small velocity ranging from 0.1 to 0.5 m/sec. The velocity is generally higher along the eastern coast. The direction of the current corresponds generally to the velocity of the wind. The direction of current in the winter is different from that in summer. In winter there is a prevailing tendency of the incoming current to the Adriatic, while in the summer there is that of the outgoing current. It was found that currents existing in the

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I 21293-66

ACC NR: AT5027518

Adriatic generally belong to gradient currents. The influence of the wind is only of local importance in the inshore stations. The ebb and flow of the tide do not increase the speed of the currents, but their influence is felt, particularly at some stations where the velocity of the resultant current is small as, e.g., is the velocity of the island of Brač. Results from stations lying along the Split-Dubrovnik profile across the central Adriatic revealed a transversal current moving eastward. Currents at the station 50, 12 in the vicinity of the Palagruza Islands, are characterized by a high velocity of the surface current. There is a summer maximum in the velocity of the surface current. Below the depth of 100 m there is the opposite direction of the surface current. This is a current involving the intermediary water layer, characterized by a higher salinity rate, and moving westward. The data testify to a flow of water from the Adriatic into the Ionian Sea. The velocity of the surface current is characterized by considerable year-to-year fluctuations in the system of currents prevailing in the Adriatic have been confirmed by direct measurements. The extent of these measurements, however, should be much greater if the character of the fluctuations and the currents moving in the intermediary layer were properly known. (Fig. 1 and 2 in figures and 1 table. (Based on author's abstract.)

SUB CODE: 03/ SUBM DATE: 0000/ GEN REPT: 006

Card 2/2

ZOREC, C

ZOREC, C. Proposals for reorganization of textile technical schools in
Yugoslavia. P. 476

Vol. 4, No. 5, May 1955

TEKSTIL
TECHNOLOGY
Zagreb

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), Vol. 4, No. 9,
Sept. 1955

ZORENKO, A., general-mayor voyak avyant; SHELYUG, Ya., podpolkovnik

"Training of radiomen should be equal to the new demands"; discussion
of the article published in no.10, 1963. Voen. vest 43 no.1:101-102
Ja 64. (MIRA 17:1)

ZORENKO, S.A.

Machine for removing plywood overhangs. Bum. 1 dar. prom. no.1:20
Ja-Mr '64. (MIPA 17:6)

ZORENKO, S.A.

Jointer for veneering shaped parts. Run. 1 day, prod. no. 2:11-13
April 1964, (MIRA 1964)

L 45153-66 EWT(d)/FSS-2

ACC NR: AP6024900 (A)

SOURCE CODE: UR/0317/66/000/007/0030/0038

AUTHOR: Zorenko, A., (Brigadier General of Communication Troops)

ORG: none

38
B

TITLE: Technical and tactical training of signal-communication personnel

SOURCE: Tekhnika i vooruzheniye, no. 7, 1966, 30-38

TOPIC TAGS: military training, specialized training, training procedure, passive defense tactic, military communication

ABSTRACT: The article deals with the technical and tactical training of signal-communication personnel of all ranks in radio transmission and aural reception of radiograms. Training programs are given for radio-telegraph operators in their first year of military service and for servicemen with long service. A graphic schedule is given for tactical and special exercises and for developing standards of protection against mass-destruction weapons for a signal-communication company. The article is illustrated by photographs showing servicemen engaged in training exercises. Orig. art. has: 5 figures.

[NT]

SUB CODE: 15/ SUBM DATE: none/

Card 1/1 *awm*

ZOREV, N. N.

USSR/Engineering
Tools, Machine
Austenite

Jan 1948

"Using High-Speed Steel Tools for Turning Type K159
Austenite Steel," N. N. Zorev, Cand Tech Sci, 4 pp

"Stanki 1 Instrument" No 1

Discusses selection of proper geometric parameters
for cutting tools, conditions for cutting, and type
of cooling liquid that permits greater efficiency
during turning of austenite steel. Great importance
is attached to front and rear angles of operating
tool. Gives formula for determining cutting perfor-
mance of high-speed steel on austenite steel.

LC

757146

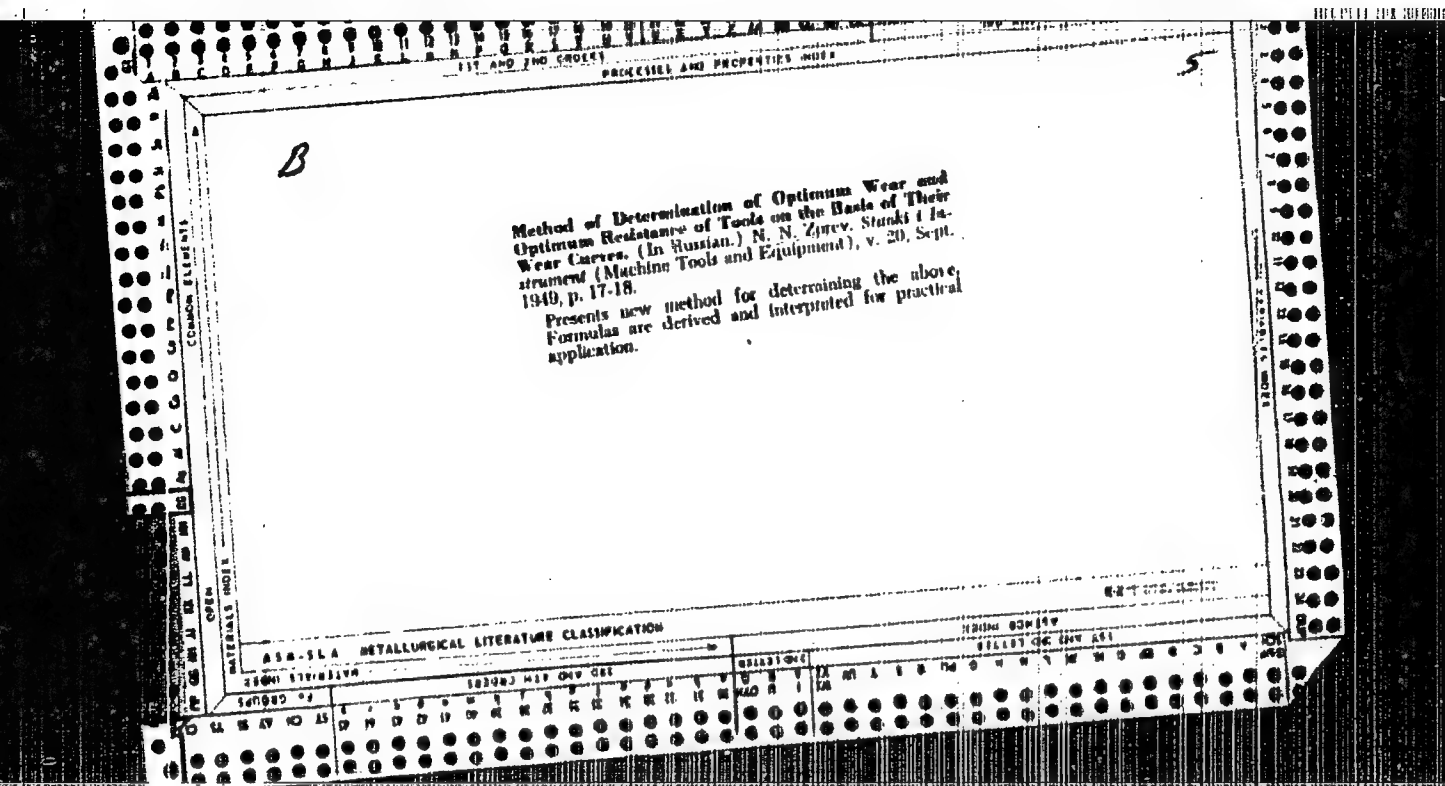
Machining of Heat Resistant Steels. (In Russian.) N. N. Zorev. *Stanki i Instrument* (Machine Tools and Instruments), v. 19, Sept. 1948, p. 16-18.

Machinability of a steel containing 0.52% C, 13.22% Cr, 13.75% Ni, 3.78% W, 0.44% Mn, 0.4% Si, 0.02% S, and 0.016% P was investigated. Optimum conditions for lathes and milling machines, including tool shapes, were established. Data are tabulated and charted.

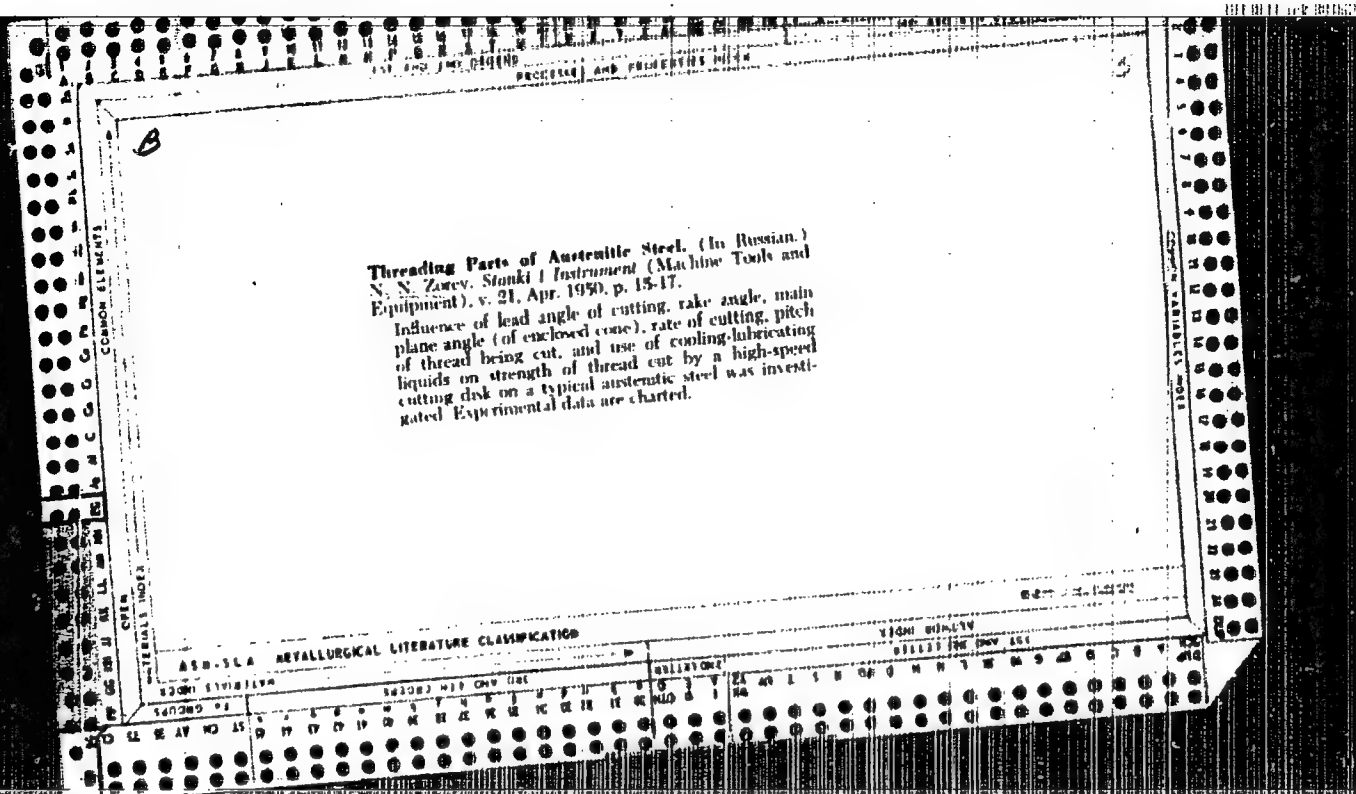
Basic Principles of Efficient Machining of Austenitic Heat-Resistant Steel, Type K109. (In Russian.) N. N. Zarev. *Katolubortovye* (Boiler and Turbine Manufacture), Jan.-Feb. 1949, p. 21-31.

Analyzes the causes of low machinability of above austenitic Cr-Ni steel (composition given). On the basis of this analysis, optimum conditions for machining are indicated. Data are tabulated and charted. Includes photomicrograph.

ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION



Thread Cutting on Austenitic Steel Parts. N. N. Zorov.
(*Stanki i Instrumenty*, 1950, No. 4, 15-17). [in Russian].
The special measures to control cutting conditions during
thread cutting, made necessary by the poor machinability
of austenitic steel, are outlined. An optimum cutting speed
of 1-2 m./min. was established. --a. k.



ZOREV. N. N.

Item No.

165/99

621.937 :666.762.1

The Employment of Ceramic

Shokki Instrum.

Materials for Cutting

4, 12-14

Metals

1952

A. I. Isayov, N. N. Zorev,

L. K. Kootshina

U.S.S.U.

The use of Alumina-based materials in place of high-speed steel and carbide tools is considered and the superiority of ceramic KM-332 as a cutting tool is shown. Principles governing the design of tools with detachable ceramic tips are discussed. Methods of grinding ceramic tool bits and tests on the cutting of a medium carbon steel are described; comparisons in each case being made with titanium-bearing carbide tools.

(From Engng Dig., 14(2), 61-62, Feb., 1953, U.K.)

ZOREV, N. N., ISAYEV, I. A. and KUCHMA, L. K.

"Soviet High Speed Machining of Cast Iron with Ceramic Cutters," Vest. Mash.,
No.10, 1952.

Translation W-25623, 24 Mar 53

1. ZOBNV, M. M.
2. SSSR (600)
4. Milling Machines
7. Effect of job set-up on the durability of milling cutters in face milling.
Vest. mash. 32 No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ISAYEV, A. I.: ZOREV, N. N.: KUCHMA, L. K.

2. USSR (600)

4. Turning

7. High-speed turning of cast iron with ceramic tools. Vest. mash. 32 no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ZOREV, N.N., kandidat tekhnicheskikh nauk.

Effect of the properties of material in an instrument upon the cutting
process. Vest.mash. 33 no.7:52-56 J1 '53. (MIRA 6:8)
(Machine tools)

ZOREV N.N.

ISAYEV, A.I., professor, doktor tekhnicheskikh nauk; ZOREV, N.N., kandidat tekhnicheskikh nauk; ARTAMONOV, A.Ya., inzhener; BRODSKIY, M.G., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskij redaktor

[Semifinish turning with large feeds] Poluchistovoe tochenie s bol'shimi podachami. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 73 p. (MLRA 7:10)
(Turning)

Card

Title : [illegible]

Periodical : Stan. i instr, 3, 14 - 15, Mar 1954

Abstract : [illegible] effect

Submitted :

Name: ZOREV, Nikolay Nikolayevich

Dissertation: Problems in the mechanics of the
metal-cutting process

Degree: Doc Tech Sci

Affiliation: Central Sci Res Inst of Technology
and Machine-Building

Defense Date, Place: 20 Feb 57, Council of Moscow Machine
Tool and Instrument Inst imeni Stalin

Certification Date: 15 Jun 57

Source: BHVO 16/57

LORENZ, N.B., kandidat tekhnicheskikh nauk; VIRKO, N.P., kandidat tekhnicheskikh nauk.

Durability and performance of end mills in cases of shift of the
workpiece in relation to the cutter. [Trudy] TSNIIIMASH no.82:57-80
'57. (MLRA 10:9)

(Milling machines)

ZOREV, Nikolay Nikolayevich; KLUSHIN, M.I., kandidat tekhnicheskikh nauk,
retsensent; ADAM, Ya.I., kandidat tekhnicheskikh nauk, redaktor;
MATVAYEVA, Ye.N., tekhnicheskij redaktor; TIKHONOV, A.Ya.,
tekhnicheskij redaktor

[Mechanical problems in the process of cutting metals] Voprosy
mekhaniki protsessa rezaniya metallov. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, (MLRA 9:9)
(Metal cutting)

25(1)

PHASE I BOOK EXPLOITATION

BOV/1650

Zorev, Nikolay Nikolayevich, Doctor of Technical Sciences, Professor

Raschet proyektsey sily rezaniya (Calculation of Cutting Force Projections) Moscow, Mashgiz, 1958. 54 p. 7,000 copies printed.

Ed. of Publishing House: Ye. A. Shemshurina; Tech. Ed.: L.P. Gordeyeva; Managing Ed. for Literature on Machine Building and Instrument Making (Mashgiz): R.D. Beyzel'man, Engineer.

PURPOSE: The book is intended for engineers in machine building plants, technologists engaged in cold working of metals, tool and machine designers, time standards and output specialists, and foremen in machine shops.

COVERAGE: The author states that the magnitude and the direction of forces involved in metal cutting operations are the dominant factors which determine performance, accuracy, and efficiency of any machining operation. The book deals with the various

Card 1/3

SOV/1650

Calculation of Cutting Force (Cont.)

methods employed to study and to determine these forces. A number of methods and empirically developed formulae are suggested. The text contains tables and nomograms which can be used to solve rapidly problems of projection of cutting forces as encountered in standard machining operations. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

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Method of Determining the Projection of the Cutting Force at Constant Resistance to Wear of the Tool	18
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Calculation of Cutting Force (Cont.)

SOV/1650

**Special Nomograms and Tables for Determining the Projection
of the Cutting Force**

29

Nomograms

32

Tables

46

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55

AVAILABLE: Library of Congress

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Card 3/3

LOLADZE, Teymuraz Nikolayevich; LARIN, M.H., prof., doktor tekhn.nauk,
retsensent; ZOREV, N.H., prof., doktor tekhn.nauk, red.;
TIKHANOV, A.Ya., tekhn.red.

[Wear of cutting tools] Iznos rezhushchego instrumenta.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958.
355 p. (MIRA 12:2)
(Cutting tools)

ZOREV, N.N., doktor tekhn. nauk prof.

Development of metal cutting technology in Eastern Germany. Vest.
mash. 38 no.3:77-81 Mr '58. (MIRA 11:2)
(Germany, Eastern--Metal cutting)

ZOREV, Nikolay Nikolayevich, prof., doktor tekhn.nauk; IVANOVA, N.A.,
red.izd-vs; ML'KIND, V.D., tekhn.red.

[Investigations carried out in the Federal Republic of Germany
on metal cutting] Issledovaniia v oblasti rezaniia metallov
v FRG. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry.
1960. 146 p. (MIRA 14:1)
(Germany, West--Metal cutting)

ZOREV, N N

PHASE I BOOK EXPLOITATION

SCV/4804

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Nekotoryye voprosy tekhnologii tyazhelogo mashinostroyeniya, chast' 2: Obrabotka metallov rezaniyem i kontrol' kachestva detaley (Some Problems in the Manufacturing Processes of Heavy Machinery, Pt. 2: Metal Cutting and Quality Control of Parts) Moscow, Mashgiz, 1960. 173 p. (Series: Its: [Trudy] kn. 99) 2,500 copies printed.

Sponsoring Agencies: Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu; Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

Ed.: Ye.P. Unksov, Doctor of Technical Sciences, Professor; Managing Ed. for Literature on Heavy Machine Building: S.Ya. Golovin, Engineer; Ed. of Publishing House: G.N. Soboleva; Tech. Ed.: Z.I. Chernova.

PURPOSE: This book is intended for technical personnel in heavy-machinery plants and for scientific workers in factory laboratories and research institutes.

Card 1/4

Some Problems (Cont.)

SOV/4804

COVERAGE: The book contains a summary of work conducted by the personnel of TsNIITMASH in the field of mechanical machining and quality control of parts. Included is a discussion on the correct combination of depth, feed, and speed in cutting with maximum capacity of the machine tool. Also considered are the development of machining methods in rough and semifinishing production, and the application of ultrasonic devices for flaw detection and measurement of wall thickness. No personalities are mentioned. References follow some of the chapters.

TABLE OF CONTENTS:

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PART I. WORKING OF METALS BY CUTTING

Ch. I. Some Results of [Research] Work in the Field of Mechanics of the Metal-Cutting Process [Zorev, N.N., Doctor of Technical Sciences] 7

Ch. II. Development of Efficient Cutting Regimes, and Methods of Improving the Usefulness of Operation of Machine Tools in Heavy-Machine Plants [Zorev, N.N., N.I. Tashlitskiy and L.K. Kuchma, Candidates of Technical Sciences; A.D. Vershinskaya and G.G. Ovumyan, Engineers] 31

Card 2/4

Some Problems (Cont.)

NOV/4804

- Ch. III. The Development and Search for New Tool Materials [Zorov, N.N. and A.I. Isayev, Doctor of Technical Sciences; L.K. Kuchma and O.M. Kirillova, Candidates of Technical Sciences; V.Yu. Katsnel'son, Engineer] 59
- Ch. IV. New Designs of Cutting Tools for the Heavy-Machinery [Industry] [Lapin, N.A., Candidate of Technical Sciences; A.D. Vershinskaya, N.M. Fedorov, A.P. Chernyy, Engineers] 70
- Ch. V. Basic Trends and Some Results of Investigations of the Machined Surface Layer [Isayev, A.I., N.A. Morozov, N.M. Fedorov, Engineers] 88
- Ch. VI. Some Results of Work on the Improvement of Manufacturing Processes in the Heavy-Machinery Industry [Isayev, A.I., N.S. Dogak, Engineer; G.S. Andreyev, Ye.N. Mikhaylenok, B.K. Makarevich, Candidates of Technical Sciences] 111

PART II. QUALITY CONTROL OF PARTS

- Ch. I. Magnetic Flaw Detection in Striving for Quality of Metal [Yeremin, N.I., Candidate of Technical Sciences] 137

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PHASE I BOOK EXPLOITATION

BOV/5566

Zorev, N.N., Doctor of Technical Sciences, Professor, and G.S. Kreymer, Candidate of Technical Sciences

Vysokoproduktivnaya obrabotka stali tverdosplavnymi reztsami pri preryvistom rezanii (High-Productivity Machining of Steel With Hard-Alloy Tools in Intermittent Cutting) Moscow, Mashgiz, 1961. 78 p. 6,500 copies printed.

Reviewer: M.N. Larin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: I.I. Lesnichenko; Tech. Ed.: L.P. Gordeyeva; Managing Ed. for Literature on Metalworking and Machine-Tool Making: V.V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for process engineers in machine-building plants and technical personnel in mechanical shops and laboratories.

COVERAGE: The book gives a concise account of the complete machining of steel parts by intermittent cutting with coarse cuts. The suggested methods are based on the efficient use of recently developed hard alloys with high resistance to cyclic thermal and mechanical loads. Concrete practical recommendations are given for reducing, by 2 to 3 times, cycle time in machining complex-shaped

Card 1/3

High-Productivity Machining (Cont.)

80V/5566

forgings, steel castings, and weldments on large planers, lathes, boring mills, and machines. The following persons carried out the testing of hard alloys at the machine-building plants indicated in parentheses: V.S. Serabrovskiy (UZTM); V.F. Mordvinova and Ya. V. Pidyuk (NKMZ); and Z.M. Fetisova, B.G. Chizov, and V. Yu. Katsnel'son (EZTM). The results of investigations conducted by VNIITS, TsNIIIMASH, and various factories, as well as practical recommendations on the introduction of hard-alloy tools in reciprocating cutting and in other cases of intermittent coarse-chip cutting, are briefly discussed. There are no references.

TABLE OF CONTENTS:

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Methods for Producing New High-Strength Hard Alloys	5
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POPCV, Vladimir Artem'yevich; ZOREV, N.N., doktor tekhn.nauk, prof.,
retsenzent; DELYUKIN, L.N., inzh., ved. red.; DUGINA, N.A.,
tekhn. red.

[Principles of the organization of technological processes in
the manufacture of heavy machinery] Printsipy postroyeniya
tekhnologii tiashelogo mashinostroyeniya. Moskva, Mashgiz,
1963. 478 p. (MIRA 16:9)
(Machinery industry--Management)

ZOREV, NIKOLAY N.

Interrelationship between shear processes occurring along
tool face and on shear plane in metal cutting

Report to be submitted for the International Conference on
Production Engineering Research, Pittsburgh, Pennsylvania
9-12 Sept 63

ZOREV, N.N., doktor tekhn.nauk, prof.

Machining steel with hard-alloy cutting tools under
intermittent cutting conditions with large shearing
sections. Vest.mashinostr. 43 no.2:62-67 F '63. (MIRA 16:3)
(Metal cutting)

ZOREV, N.N., doktor tekhn. nauk, prof.

Interdependence of processes in the area of chip formation
and in the contact area of the top cutting surface. Vest.
mashinostr. 43 no.12:42-50 D '63. (MIRA 17:8)

ZOREV, N.N., prof. dr. (Moscow)

Friction coefficient in working metals and its regular changes.
Strojirenstvi 15 no.2:117-126 F '65.

ZOREV, N.N. (Moscow) [Zorev, N.N.]

Causes of bad machinability of austenitic chromium-nickel
steels. Archiw bud maszyn 12 no.1:31-46 '65.

ZOREV, N.N., doktor tekhn.nauk, prof.

Effect of the nature of cutting-tool wear on the relationship
between its strength and the cutting speed. Vent.mashinostr.
45 no.2:68-76 F '65.

(MIRA 18:14)

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065420014-7"

[illegible]

ACC NR: KP6002636

SOURCE CODE: 01/0032/65/015/002/0117/0126

AUTHOR: Zerev, N. N. (Professor; Doctor; Moscow)

ORG: none

TITLE: Coefficient of friction between the tool and workpiece and its nature

SOURCE: Strojiranstvi, v. 15, no. 2, 1965, 117-126

TOPIC TAGS: friction, synthetic material, plastic fabricating machinery

ABSTRACT: Generalizing the results of large-scale experiments in the machining of various plastic materials, the author emphasizes the difference between the friction on the contact surfaces of machine parts and the friction between the cutting tool and workpiece. The effect of the machining conditions on variations of the coefficient is examined in detail. This work was presented by Engr. J. Houdak and Engr. J. Holod. Orig. art. has: 26 figures, 15 formulas. [JPRS]

SUB CODE: 13 / SUBM DATE: none / OTH REF: 002 / SOV REF: 007

LISSAK, K.; MEDGYESI, P.; TENYI, I.; ZORENYI, I.

Influence of the adrencorticotrophic hormone on higher nervous activity.
Acta physiol. hung. 14 no.4:361-365 1958.

1. Physiologisches Institut der Medizinischen Universität, Pecs.

(REFLEX, CONDITIONED, eff. of drugs on

ACTH on extinction of feeding reflexes in dogs (Ger))

(ACTH, eff.

on extinction of conditioned feeding reflexes in dogs (Ger))

~~NOB~~-ARMANDA, Mira, dr.

Vertical distribution of the currents in the central and
southern Adriatic. Hidrograf god. 61-72 '62.

1. Glan Uradivackog odbora, "Hidrografski institut".

PUDCOVIK, A.N.; MIRATOVA, A.A.; SUSHENTSOVA, F.F.; ZOREVA, N.M.

Heterochain polymers with phosphorus and oxygen atoms in the main chain.
Polyphosphine phosphates and polyphosphinates. Vysokom.socd. 6 no.2:258-
264 F '64. (MIRA 17:2)

1. Kazanskiy gosudarstvennyy universitet imeni Lenina.

ACCESSION NR: AP4017637

S/0190/64/006/002/0258/0264

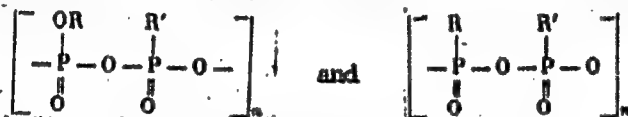
AUTHORS: Pudovik, A. N.; Muratova, A. A.; Sushentsova, P. F.; Zorava, N. M.

TITLE: Heterochain polymers with phosphorus and oxygen atoms in the main chain. Polyphosphinophosphates and polyphosphinates

SOURCE: Vyssokomolekulyarnyye soyedineniya, v. 6, no. 2, 1964, 258-264

TOPIC TAGS: polymer, polycondensation, phosphinic acid, alkylphosphinic acid, alkylphosphinic acid ester, alkylphosphinyl dichloride, phosphoryl dichloride, ethyldichlorophosphine, polyphosphinophosphate, polyphosphinate, heterochain polymer

ABSTRACT: This investigation involved polyphosphinophosphates (PPF) and polyphosphinates (PP), the polymeric chain of which consisted of links



with radicals containing from 2 to 11 carbons. These polymers were obtained by

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ACCESSION NR: AP4017637

polycondensation of alkylphosphinic acid esters with dichlorides of alkylphosphoric-, alkylphosphinic-, and arylphosphinic acids. The polycondensation was conducted for 4-10 hours at a gradual temperature rise from 120 to 200C. The molecular weight, softening point, and solubility of the obtained polymers in water and in organic solvents were determined. It was found that the PPF compounds, which contained 4-8 carbon atoms per link, dissolved only in water and alcohols and were insoluble in organic solvents. An increase in the number of carbon atoms to 14 per link resulted in the formation of polymers soluble in organic solvents, possessing a low melting point from -30 to -50C, displaying good adhesion to glass, and having a low flammability. The replacement of an aliphatic radical by benzyl raised the melting point by about 60-80C. The PPF and PF compounds are rapidly hydrolyzed by water (even at 0C). When the molecular ratio of the issuing alkylphosphinic acid esters and of the dichlorides was 1:1, the polymerization yielded only products of low molecular weight (676-712). A 30% excess of dichloride was required to bring it up to 2600-2890. It was found that the investigated polymerization reactions were of the second order, and that the reaction rate increased with temperature, as well as in the presence of such catalysts as FeCl_3 , ZnCl_2 , and AlCl_3 . Orig. art. has: 2 charts, 4 formulas, and 3 tables.

Card 2/3

ACCESSION NR: AP4017637

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Lenina (Kazan'
State University)

SUBMITTED: 01Dec62

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 003

OTHER: 003

Card 3/3

KAROV, V.V.; ZOREVA, S.P.

Further observations on the use of blood transfusion in treating
active slow-course rheumatic fever in patients with mitral stenosis.
Uch. trudy GMI no.19:85-89 '65.

(MIRA 18:8)

1. Iz kliniki gosspital'noy khirurgii Gor'kovskogo gosudarstvennogo
meditsinskogo instituta imeni S.M.Kirova.

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ZORGA, Marcel, inz.

Thirty Fourth International Congress on Industrial Chemistry;
Belgrade, September 22-29, 1963. Nova proizv. 14. no. 5/6:
438-440 0 '63

1. Clan Uredniskoga odbora, "Nova proizvodnja".

ZORGEVITS, Adol'f Krishevich [Zorgevic, A.]; ZHUKOV, M., red.;
VASILEVSKA, L., tekhn..red.

[Gladioli] Gladiolusy. Riga, Latvian gos.izd-vo, 1961.
81.p. illus. (MIRA 15:6)

(Gladiolus)

ZORZO, B.

Utilization of object models in the development of mathematical thinking of young pupils. Rev pedagogic 10 no.3:201-215 '64,

1. Chair of Pedagogy and Psychology of the Oluj University.

ZORI, A.S.

~~241 meters of vertical shaft completed monthly. Gor. shar. no.7:~~
46-50 J1 '57. (MLBA 10:8)

1. Nachal'nik tekhnicheskogo otbela tresta Stalinshakhtoprokhoda.
(Shaft sinking)

ZORI, A.S., inzh.

Experience in shaft lining using movable, sectional formwork.
Shakht. stroi. no.3:27-29 '58. (MIRA 11:3)

1. Treat Stalinshakhtoprokhodka.
(Shaft sinking) (Concrete construction--Formwork)

2021, 45

127-58-6-7/25

AUTHOR: Zori, A.S., Head of the Technical Section of Stalinshakhto-prokhodka Trust

TITLE: 100.8 m a Month of Ready Vertical Shaft With Metallic Leaf Type Sheathing (100.8 m gotovogo vertikal'nogo stvola v mesyats s metallicheskoj stvorchatoy opalubkoj)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 28-31 (USSR)

ABSTRACT: The Giproshtakhtostroy mash Institute constructed a metallic leaf type sheathing for supporting vertical shafts by quick setting concrete from top to bottom. The author describes how the utilization of this sheathing permitted the erecting of 100.8 m of concrete-supported shaft in a month. This method has the following advantages: 1) absence of temporary supports and supporting rims in the shaft; 2) increased work safety - the permanent support being only 2 m from the end; 3) mechanization of the operation, which formerly involved large manual effort; 4) absence of loading platform in the shaft and therefore increased speed of lifting containers; and 5) it is economical.

Card 1/2

127-58-6-7/25

100.8 m a Month of Ready Vertical Shaft With Metallic Leaf Type Sheathing

There are 2 figures.

ASSOCIATION: **Trest Stalinshakhtoprokhodka** (Stalinskukhtoprokhodka Trust)

AVAILABLE: Library of Congress

Card 2/2 1. Shafts-Construction 2. Shafts-Test methods 3. Concrete

ZORI, A.S.

100.8m. of vertical shaft with folding metal sheathing completed in
one month. Gor. shur. no.6:28-31 Je '58. (MIRA 11:16)

1. Nachal'nik tekhnicheskogo otdela tresta Stalinshakhtopromkha.
(Shaft sinking)

ZORI, A.S.; KURCHIN, M.V.; PILIPENKO, I.V.

Vertical shaft sinking at a speed of 202 m. per month. Gor.zhur.
no.8:3-8 Ag '55. (MIRA 8:8)
(Shaft sinking)

TYUNKYAN, Raffi Armenokovich; ZORI, Anatoliy Stapanovich; D'YACHENKO, I.M.,
red.; SYCHUGOV, V.G., tekhn. red.

[Rapid shaft sinking with the KS-1M machine unit] Skorostnaia pro-
khodka stvola s kompleksom KS-1M. Kiev, Gos. izd-vo tekhn. lit-ry,
USSR, 1961. 53 p. (MIRA 14:10)
(Donets Basin—Shaft sinking—Equipment and supplies)

ZORI, A.S., gornyy inzh.

Sinking a vertical mine shaft at the speed of 290.5 m. a month.
Gor. zhur. no.1:40-44 Ja '64. (MIRA 17:3)

1. Trest Donetskshakhtoprokhodka.

ZORI, A.S.

48/5
.664
.D2

A. S. Zori.

Skorostnaya prokhodka vertikal'nykh
stvolov (Speed cutting of vertical
shafts, by) M.P. Davydov. Kiev, Gostekhizdat, 1955.
71 p. illus., di-grs., tables.

DAVYDOV, M.P.; ZORI, A.S.

~~SECRET~~
One hundred and fifty meters of completed vertical shaft per month.
Gor.zhur. no.2:10-14 F'55. (MIRA 8:7)
(Shaft sinking)